

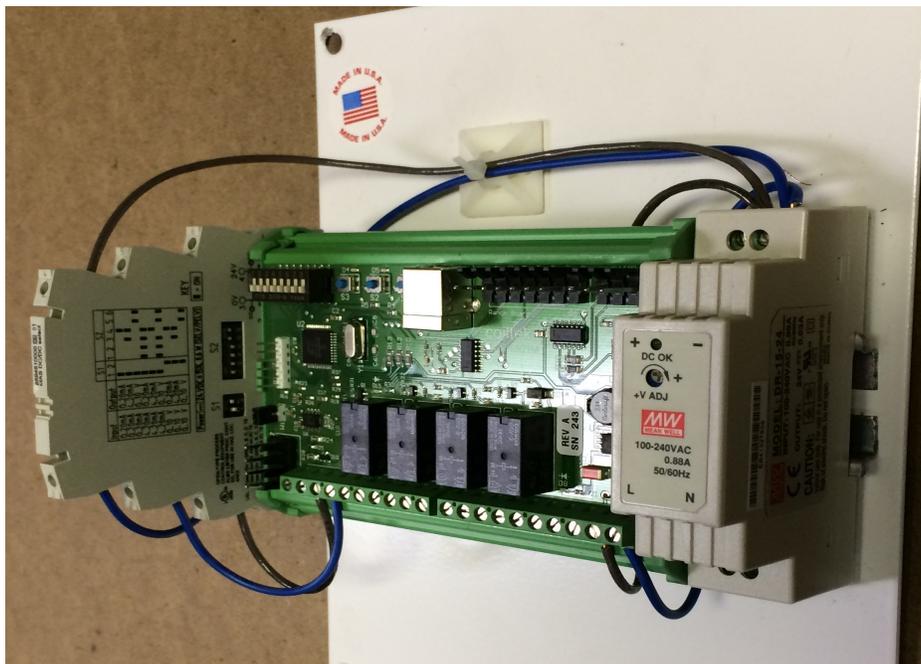


**coil technology inc.**  
2109 Great Trails P.O. Box 540  
Wooster, Ohio, 44691-0540  
phone: 330-601-1350 fax: 330-601-1352  
Email: [andy.cary@coiltek.com](mailto:andy.cary@coiltek.com)  
web: [www.coiltek.com](http://www.coiltek.com)

## Installing the CB-5501M with Isolation Card

The CB-5501M is intrinsically isolated from ground if installed according to the enclosed instructions. That said, the substantial negative-offset voltage reference (-45VDC to >100VDC) associated with older DC or Eddy Current drives has caused improper operation to the point of component destruction when the CB-5501's 0-10VDC output is connected to common. For this reason, Coiltek strongly recommends the use of a DC to DC isolation card. Because it is narrow and fits with the current enclosure scheme of the CS-5000, the Weidmuller 859481 isolation card will be supplied when this option is selected.

Here's how the card will look when integrated with the main card. The isolation module is the tall white device on the left.



It's shown prewired to the CB-5501M. Only the final 0-10VDC output is not wired. The connections to the device are as follows.

Terminal Number	Connection
1	+ Incoming Signal
2	- Incoming Common
3	+ 24VDC Power
4	- 24VDC Supply Common
5	- Isolated Output Ref. Common
6	+ Isolated Output 0-10VDC Signal

When prewired, only the drive connections to terminal 5 and 6 are required. If adding the isolation card in the field, wire CB-5501M terminal 2 to Weidmuller card terminal 1 and CB-5501M terminal 3 to Weidmuller card terminal 2. Then wire in the 24VDC supply connections per the table above. In addition, the tiny DIP switches on the side of the card must be set properly. The settings for 0-10VDC to 0-10VDC are shown on the side of the module.